



SFUND RECORDS CTR
2156452


ICF International / Laboratory Data Consultants

Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Task Order Manager (TOM) RF
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager 
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105060

DATE: May 23, 2007

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Omega Chem OU2
Site Account No.:	09 BC LA02
CERCLIS ID No.:	CAD042245001
Case No.:	36184
SDG No.:	Y36K5
Laboratory:	Mitkem Corporation (MITKEM)
Analysis:	Trace Volatiles (TV) Selective Ion Monitoring (SIM)
Samples:	20 Ground Water Samples (see Case Summary)
Collection Date:	February 26, 2007 through March 1, 2007
Reviewer:	Santiago Lee, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Jennie Han-Liu, CLP PO USEPA Region 1
Steve Remaley, CLP PO USEPA Region 9

CLP PO: ☒ Attention ☒ Action

SAMPLING ISSUES: ☒ Yes ☐ No

00105060-7909/36184/Y36K5-TVS-T2

Data Validation Report – Tier 2

Case No.: 36184
SDG No.: Y36K5
Site: Omega Chem OU2
Laboratory: Mitkem Corporation.
Reviewer: Santiago Lee, ESAT/LDC
Date: May 23, 2007

I. CASE SUMMARY

Sample Information

Samples: Y36K5 through Y36M4
Concentration and Matrix: Low Concentration Water
Analysis: Trace Volatiles SIM
SOW: SOM01.1 Modified Analysis 1363.2
Collection Date: February 26, 2007 through March 1, 2007
Sample Receipt Date: February 28, 2007 through March 2, 2007
Extraction Date: Not Applicable
Analysis Date: March 9 and 12, 2007

Field QC

Field Blanks (FB): Y36K6, Y36L4, and Y36M1
Equipment Blanks (EB): Not Provided
Trip Blank (TB): Not Provided
Background Samples (BG): Not Provided
Field Duplicates (D1): Y36L5 and Y36L6

Laboratory QC

Method Blanks & Associated Samples:
VBLK2Y: Y36K5 through Y36M3
VBLK2G: Y36L2RE through Y36M3RE, Y36M4
VBLK2U: Storage blank VHBLK2W

Tables

- 1A: Analytical Results with Qualifications
- 1B: Data Qualifier Definitions for Organic Data Review
- 2: Calibration Summary

CLP PO Action

Nondetected results for 1,4-dioxane are qualified as rejected (R) due to very low response factors (<0.01) in initial and continuing calibrations (see Comment A).

CLP PO Attention

Detected results for 1,4-dioxane and nondetected results for 1,2-dibromo-3-chloropropane are qualified as estimated (J) due to low response factors (<0.05) in initial and continuing calibrations (see Comment B).

Sampling Issues

The sampler signature is missing on the traffic report & chain of custody records (TR/COC; attached, p. 11 through 14 in data package).

Additional Comments

As directed by the TOM, a Tier 2 validation (i.e., Tier 3 review of all SIM results) was performed.

Recoveries for deuterated monitoring compounds (DMCs) 1,2-dichloroethane-d4 and 1,1,2,2-tetrachloroethane-d2 exceeded QC limits but associated sample results were not qualified because they were nondetects.

Internal standard (IS) areas for 1,4-dichlorobenzene-d4 in samples Y36L2 and Y36L5 through Y36M1 were below the QC limit. These samples were reanalyzed and the IS areas were within the QC limit. Results from the reanalysis of samples Y36L2 and Y36L5 through Y36M1 are presented in Table 1A since IS areas are within QC limit.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- USEPA Contract Laboratory Program Statement of Work for Organics Analysis, *Multi-Media, Multi-Concentration*, SOM01.1, May 2005; and
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	<u>Parameter</u>	<u>Acceptable</u>	<u>Comment</u>
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	No	A, B
4	Continuing Calibration	No	A, B
5	Laboratory Blanks	Yes	
6	Field Blanks	Yes	
7	Deuterated Monitoring Compounds	Yes	
8	Matrix Spike/Matrix Spike Duplicates	N/A	
9	Laboratory Control Samples/Duplicates	N/A	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation	Yes	
13	System Performance	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

- A. Nondetected results for the following analyte are qualified as rejected due to very low relative response factors (RRFs) in initial and continuing calibrations and are flagged "R" in Table 1A.

- 1,4-Dioxane in samples Y36K5, Y36K6, Y36L3 through Y36M2, and Y36M4; all method blanks; and storage blank VHBLK2U

RRFs below 0.01 were reported for 1,4-dioxane in all initial and continuing calibrations (see Table 2). Since results are nondetected, false negatives may exist.

The DMC 1,4-dioxane-d8 also had RRF values below 0.01 in initial and continuing calibrations (see Table 2).

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

- B. Results for the following analytes are qualified as estimated due to low RRFs in initial and continuing calibrations and are flagged "J" in Table 1A.

- 1,4-Dioxane in samples Y36K7 through Y36L2 and Y36M3
- 1,2-Dibromo-3-chloropropane in all samples, all method blanks, and storage blank VHBLK2U

RRFs below 0.01 were reported for 1,4-dioxane in all initial and continuing calibrations (see Table 2). RRFs between 0.05 and 0.01 were reported for 1,2-dibromo-3-chloropropane in all initial and continuing calibrations (see Table 2). Qualified results for 1,4-dioxane may be biased low. Since 1,2-dibromo-3-chloropropane results are nondetected, false negatives may exist.

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

ANALYTICAL RESULTS

Page 1 of 2

Case No. : 36184

SDG No. : Y36K5

Table 1A - Tier 2

Site : OMEGA CHEM OU2

Lab : MITKEM CORPORATION

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/23/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Volatiles SIM

Station Location :	Y36K5			Y36K6			Y36K7			Y36K8			Y36K9			Y36L0		
Sample ID :	Y36K5			Y36K6		FB	Y36K7			Y36K8			Y36K9			Y36L0		
Collection Date :	2/26/2007			2/26/2007			2/26/2007			2/26/2007			2/26/2007			2/26/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Volatiles SIM	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	2.0U	R	A	2.0U	R	A	9.6	J	B	9.6	J	B	20	J	B	3.4	J	B
1,2-Dibromoethane	0.050U			0.050U			0.050U			0.050U			0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B

Station Location :	Y36L1			Y36L2			Y36L3			Y36L4			Y36L5			Y36L6		
Sample ID :	Y36L1			Y36L2RE			Y36L3			Y36L4		FB	Y36L5RE		D1	Y36L6RE		D1
Collection Date :	2/26/2007			2/27/2007			2/27/2007			2/27/2007			2/27/2007			2/27/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Volatiles SIM	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	19	J	B	2.7	J	B	2.0U	R	A	2.0U	R	A	2.0U	R	A	2.0U	R	A
1,2-Dibromoethane	0.050U			0.050U			0.050U			0.050U			0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B

Station Location :	Y36L7			Y36L8			Y36L9			Y36M0			Y36M1			Y36M2		
Sample ID :	Y36L7RE			Y36L8RE			Y36L9RE			Y36M0RE			Y36M1RE		FB	Y36M2		
Collection Date :	2/27/2007			2/28/2007			2/28/2007			2/28/2007			2/28/2007			2/28/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Volatiles SIM	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	2.0U	R	A	2.0U	R	A	2.0U	R	A	2.0U	R	A	2.0U	R	A	2.0U	R	A
1,2-Dibromoethane	0.050U			0.050U			0.050U			0.050U			0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS

Page 2 of 2

Case No. : 36184

SDG No. : Y36K5

Table 1A - Tier 2

Site : OMEGA CHEM OU2

Lab : MITKEM CORPORATION

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/23/07

QUALIFIED DATA
Concentration in ug/LAnalysis Type : Trace Level Water Samples
for Volatiles SIM

Station Location :	Y36M3			Y36M4			Method Blank			Method Blank			Method Blank			Storage Blank		
Sample ID :	Y36M3			Y36M4			VBLK2G			VBLK2U			VBLK2Y			VHBLK2U		
Collection Date :	2/28/2007			3/1/2007														
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Volatiles SIM	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	15	J	B	2.0U	R	A	2.0U	R	A	2.0U	R	A	2.0U	R	A	2.0U	R	A
1,2-Dibromoethane	0.050U			0.050U			0.050U			0.050U			0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B	0.050U	J	B

Station Location :																		
Sample ID :	CRQL																	
Collection Date :																		
Dilution Factor :																		
Volatiles SIM	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	2.0																	
1,2-Dibromoethane	0.050																	
1,2-Dibromo-3-chloropropane	0.050																	

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," January 2005.

- U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
- L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
- R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Table 2
Calibration Summary

Case No.: 36184
SDG No.: Y36K5
Site: Omega Chem. OU2
Laboratory: Mitkem Corporation
Reviewer: Santiago Lee, ESAT/LDC
Date: May 23, 2007

RELATIVE RESPONSE FACTORS (RRF)

	<u>RRF</u>	<u>RRF</u>	<u>RRF</u>	<u>RRF</u>	<u>RRF</u>
Analysis date:	01/25/07	03/09/07	03/10/07	03/12/07	03/12/07
Analysis time:	10:29-	13:30	00:59	08:35	19:11
GC/MS I.D.:	V2	V2	V2	V2	V2
<u>Analyte</u>	<u>Init.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>
1,4-Dioxane	0.001	0.001	0.001	0.001	0.001
1,4-Dioxane-d8	0.001	0.000	0.001	0.000	0.000
1,2-Dibromo-3-chloropropane	0.037	0.037	0.049	0.033	0.044

	<u>RRF</u>	<u>RRF</u>
Analysis date:	03/15/07	03/15/07
Analysis time:	14:34	22:14
GC/MS I.D.:	V2	V2
<u>Analyte</u>	<u>Cont.</u>	<u>Cont.</u>
1,4-Dioxane	0.001	0.001
1,4-Dioxane-d8	0.000	0.001
1,2-Dibromo-3-chloropropane	0.036	0.030



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36184
DAS No:
SDG No: Y36K5 **L**

Date Shipped: 2-27-2007 Carrier Name: FedEx Airbill: 859278042139 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Chain of Custody Record		Sampler Signature	For Lab Use Only Lab Contract No: EP-W-05-030 Unit Price: \$0 Transfer To: Lab Contract No: Unit Price: 	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1	<i>[Signature]</i> 2-27-07 / 1530	<i>[Signature]</i> 2-28-07 8:50		
	2				
	3				
4					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
01 Y36K5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	100 (Not preserved), 101 (Not preserved), 110 (HCL), 111 (HCL), 112 (HCL), 113 (HCL) (6)	Y36K5	S: 2/26/2007 10:05		OK
02 Y36K6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	114 (HCL), 115 (HCL), 116 (HCL), 117 (HCL) (4)	Y36K6	S: 2/26/2007 10:15		
03 Y36K7	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	102 (Not preserved), 103 (Not preserved), 118 (HCL), 119 (HCL), 120 (HCL), 121 (HCL) (6)	Y36K7	S: 2/26/2007 11:10		
04 Y36K8	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	104 (Not preserved), 105 (Not preserved), 122 (HCL), 123 (HCL), 124 (HCL), 125 (HCL) (6)	Y36K8	S: 2/26/2007 11:48		
05 Y36K9	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	106 (Not preserved), 107 (Not preserved), 126 (HCL), 127 (HCL), 128 (HCL), 129 (HCL) (6)	Y36K9	S: 2/26/2007 13:46		
06 Y36L0	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	132 (HCL), 133 (HCL), 134 (HCL), 135 (HCL) (4)	Y36L0	S: 2/26/2007 13:40		
07 Y36L1	Ground Water/ Robert Hernandez	H/G	SIM TVOA (21), SVOA (21)	108 (Not preserved), 109 (Not preserved), 136 (HCL), 137 (HCL), 138 (HCL), 139 (HCL) (6)	Y36L1	S: 2/26/2007 15:12		OK

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y36K6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 30C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane				

TR Number: 9-373659945-022607-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36184
DAS No:
SDG No: Y36K5

L

Date Shipped: 2/27/2007 Carrier Name: FedEx Airbill: 859278042139 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Chain of Custody Record		Sampler Signature:	For Lab Use Only Lab Contract No: EP-W-05-030 Unit Price: \$0 Transfer To: — Lab Contract No: — Unit Price: —	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1	<i>[Signature]</i> 2-27-07/1530	<i>[Signature]</i>		2-28-07 8:50
	2				
	3				
4					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
58 Y36L2	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	140 (Not preserved), 141 (Not preserved), 152 (HCL), 153 (HCL), 154 (HCL), 155 (HCL) (6)	Y36L2	S: 2/27/2007 9:40		NEW 2/28/07 one ok 1L amber rec'd broken
09 Y36L3	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	142 (Not preserved), 143 (Not preserved), 156 (HCL), 157 (HCL), 158 (HCL), 159 (HCL) (6)	Y36L3	S: 2/27/2007 10:25		OK
10 Y36L4	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	144 (Not preserved), 145 (Not preserved), 160 (HCL), 161 (HCL), 162 (HCL), 163 (HCL) (6)	Y36L4	S: 2/27/2007 10:00		1-L amber missing
11 Y36L5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	146 (Not preserved), 147 (Not preserved), 164 (HCL), 165 (HCL), 166 (HCL), 167 (HCL) (6)	Y36L5	S: 2/27/2007 11:05		OK
12 Y36L6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	148 (Not preserved), 149 (Not preserved), 168 (HCL), 169 (HCL), 170 (HCL), 171 (HCL) (6)	Y36L6	S: 2/27/2007 11:10		OK
13 Y36L7	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	150 (Not preserved), 151 (Not preserved), 172 (HCL), 173 (HCL), 174 (HCL), 175 (HCL) (6)	Y36L7	S: 2/27/2007 13:02		OK

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 30C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y
SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane				

TR Number: 9-373659945-022707-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36184

DAS No:

SDG No:

Y36K5

L

Date Shipped: 2/28/2007 Carrier Name: FedEx Airbill: 8592-7811-0283 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Chain of Custody Record		Sampler Signature:	For Lab Use Only
	Relinquished By	(Date / Time)	Received By	(Date / Time)
	1	[Signature] 2-28-07 / 15:30	[Signature]	3-1-07 8:50
	2	[Signature]		
	3	[Signature]		
4				
				Lab Contract No: EP-W-05-030
				Unit Price: \$0
				Transfer To: -
				Lab Contract No: -
				Unit Price: -

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
14 Y36L8	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	176 (Not preserved), 177 (Not preserved), 186 (HCL), 187 (HCL), 188 (HCL), 189 (HCL) (6)	Y36L8	S: 2/28/2007 9:15		OK ↓
15 Y36L9	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	178 (Not preserved), 179 (Not preserved), 190 (HCL), 191 (HCL), 192 (HCL), 193 (HCL) (6)	Y36L9	S: 2/28/2007 10:12		
16 Y36M0	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	180 (Not preserved), 181 (Not preserved), 194 (HCL), 195 (HCL), 196 (HCL), 197 (HCL) (6)	Y36M0	S: 2/28/2007 10:51		
17 Y36M1	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	198 (HCL), 199 (HCL), 200 (HCL), 201 (HCL) (4)	Y36M1	S: 2/28/2007 11:00		
18 Y36M2	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	182 (Not preserved), 183 (Not preserved), 202 (HCL), 203 (HCL), 204 (HCL), 205 (HCL) (6)	Y36M2	S: 2/28/2007 11:30		
19 Y36M3	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	184 (Not preserved), 185 (Not preserved), 206 (HCL), 207 (HCL), 208 (HCL), 209 (HCL) (6)	Y36M3	S: 2/28/2007 13:17		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 20C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y
SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane				

TR Number: 9-373659945-022807-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36184
DAS No:
SDG No: Y36K5 **L**

Date Shipped: 3/1/2007 Carrier Name: FedEx Airbill: 8592-7811-0310 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Chain of Custody Record		Sampler Signature:	For Lab Use Only Lab Contract No: EP W 05-030 Unit Price: \$0 Transfer To: Lab Contract No: Unit Price: 	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 <i>[Signature]</i>	3-1-07 1600	<i>[Signature]</i>		3-2-07 8:50
	2 <i>[Signature]</i>				
3 <i>[Signature]</i>					
4 <i>[Signature]</i>					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
20 Y36M4	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	210 (Not preserved), 211 (Not preserved), 222 (HCL), 223 (HCL), 224 (HCL), 225 (HCL) (6)	Y36M4	S: 3/1/2007 9:21		OK
1 Y36M5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	212 (Not preserved), 213 (Not preserved), 226 (HCL), 227 (HCL), 228 (HCL), 229 (HCL) (6)	Y36M5	S: 3/1/2007 10:08		
2 Y36M6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	214 (Not preserved), 215 (Not preserved), 230 (HCL), 231 (HCL), 232 (HCL), 233 (HCL) (6)	Y36M6	S: 3/1/2007 10:53		
3 Y36M7	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	234 (HCL), 235 (HCL), 236 (HCL), 237 (HCL) (4)	Y36M7	S: 3/1/2007 10:38		
4 Y36M8	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	216 (Not preserved), 217 (Not preserved), 238 (HCL), 239 (HCL), 240 (HCL), 241 (HCL) (6)	Y36M8	S: 3/1/2007 12:25		
5 Y36M9	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	218 (Not preserved), 219 (Not preserved), 220 (Not preserved), 221 (Not preserved), 242 (HCL), 243 (HCL), 244 (HCL), 245 (HCL), 246 (HCL), 247 (HCL), 248 (HCL), 249 (HCL) (12)	Y36M9	S: 3/1/2007 13:25		OK ARN 3/2/07

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: Y36M4 LAB USED "LAN QC"	Additional Sampler Signature(s): <i>[Signature]</i>	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key: SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: 9-373659945-030107-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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